

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (Currently Amended) A molding device for blow-molding or stretch-blow-molding containers from heated thermoplastic preforms, said device comprising at least one mold  $[(1)]$  comprising at least two half-molds  $[(1a, 1b)]$  that can be moved with respect to each other between an open position in which they are parted from one another and a closed position in which they are firmly pressed against one another via collaborating respective bearing faces  $[(2a, 2b)]$  defining a parting line  $[(3)]$ , locking means  $[(14)]$  being provided to lock the two half-molds  $[(1a, 1b)]$  in the closed position, which locking means  $[(14)]$  comprising on at least one side of the mold, a first lock element  $[(15)]$  in the form of a hook secured fixedly to the first half-mold  $[(1a)]$  along the edge of the bearing face  $[(2a)]$  thereof, a second lock element  $[(16)]$  in the form of a hook inverted with respect to the previous one and mounted such that it can pivot, on a rotation surface, on the second half-mold  $[(1b)]$ , and actuating means functionally associated with said second lock element in such a way as to move the latter transversely between a locked position in which it is engaged with the first lock element to lock the two half-molds in the closed position and an unlocked position in which it is disengaged from the first lock element to release the two half-molds that can then be parted from one another,

~~characterized in that~~ wherein, in addition:

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- the first and second hook-shaped lock elements  $[(15, 16)]$  extend respectively over the entire height of the first and second half-molds  $[(1a, 1b)]$ ,
- the second half-mold  $[(1b)]$  has, along the edge of its bearing face  $[(2b)]$  and over at least most of its height, a radially projecting flange  $[(17)]$  shaped, on its face facing away from the bearing face  $[(2b)]$ , as an arc of a circle and able to constitute a rotation surface  $[(18)]$ , and
- said second lock element  $[(16)]$  belongs to one end of a moving part  $[(19)]$  provided with a transverse projecting flange  $[(20)]$  defining a bearing surface  $[(21)]$  in the shape of an arc of a circle facing toward the second hook-shaped lock element  $[(16)]$  and able to bear continuously over the entire height of said rotation surface  $[(18)]$  of the second lock element  $[(1b)]$ ,

whereby, when the mold is closed and locked and subjected to the blowing pressure, the force to which the second half-mold is subjected is reacted, by said moving part, substantially continuously over most of its height via said rotation surface.

2. (Currently Amended) The molding device as claimed in claim 1, in which the mold  $[(1)]$  is of the hinged type with the two half-molds  $[(1a, 1b)]$  articulated to one another in terms of rotation on a shaft  $[(8)]$  substantially parallel to one side of the parting line  $[(3)]$ , ~~characterized in that~~ wherein said locking means  $[(14)]$  are provided on the opposite side of the two half-molds to said shaft  $[(8)]$ .

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3. (Currently Amended) The molding device as claimed in claim 1 ~~[[or 2]]~~, in which each half-mold ~~[[1a, 1b]]~~ comprises a shell holder ~~[[5a, 5b]]~~ to which there is internally fixed a shell ~~[[6a, 6b]]~~ equipped with a molding half-cavity ~~[[4a, 4b]]~~ the parting line ~~[[6]]~~ being defined by the two shells ~~[[6a, 6b]]~~ pressed together when the mold is in the closed position, ~~characterized in that~~ wherein the locking means ~~[[14]]~~ are supported by the two shell-holders ~~[[5a, 5b]]~~.

4. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 3,~~ ~~characterized in that~~ claim 1, wherein said face of the protruding flange ~~[[17]]~~ of the second half-mold ~~[[1b]]~~ which faces away from the edge of the bearing face ~~[[2b]]~~ is hollowed out ~~[[22]]~~ in the shape of an arc of a circle and houses a rotation spindle ~~[[23]]~~ the free surface of which constitutes said rotation surface ~~[[18]]~~.

5. (Currently Amended) The molding device as claimed in claim 4, ~~characterized in that~~ wherein the rotation spindle ~~[[23]]~~ of the moving part ~~[[19]]~~ supporting the second lock element ~~[[16]]~~ is supported by a small number of hollowed-out clevises secured to the second half-mold.

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6. (Currently Amended) The molding device as claimed in claim 5, ~~characterized in that~~ wherein the clevises are two in number, distant from one another and, in particular, situated near the respective ends of the spindle.

7. (Currently Amended) The molding device as claimed in claim 4, ~~characterized in that~~ wherein the rotation spindle of the moving part supporting the second lock element has a height appreciably greater than that of the second lock element and in that its two ends are engaged in two respective cups, secured to the second mold, whereby the moving part supporting the second lock element bears over substantially the entirety of its height against the rotation spindle.

8. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 7,~~ ~~characterized in that~~ claim 1, wherein the first and second hook-shaped lock elements ~~[[ (15, 16) ]]~~ extend continuously over their entire height.

9. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 7,~~ ~~characterized in that~~ claim 1, wherein at least the second hook-shaped lock element ~~[[ (16) ]]~~ extends discontinuously over its entire height and comprises a multiplicity of hooks ~~[[ (39) ]]~~ separated from one another ~~[[ (40) ]]~~ and distributed over its entire height.

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10. (Currently Amended) The molding device as claimed in ~~any one of claims 4 to 9,~~  
~~characterized in that~~ claim 4, wherein the rotation spindle is arranged in the form of an eccentric  
spindle and in that pivot control means are associated with it,

whereby the spindle is able to occupy two angular positions with respect to the moving  
part, namely a position at minimum radius for which the moving part bears against the part of the  
spindle that has a minimum radius and for which the moving part can be made to move toward  
its locked position or toward its unlocked position and a position at a greater radius for which the  
moving part bears against a part of the spindle that has a radius greater than the minimum radius  
and for which the moving part, in the locked position, is immobilized in this position being  
subjected to traction between the first and second mutually-engaged lock elements and the  
rotation spindle.

11. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to~~  
~~10~~ claim 1, this device being of the rotary carousel type, ~~characterized in that~~ wherein the  
actuating means functionally associated with the second lock element comprise at least one  
idling cam follower roller supported by part of the moving part situated beyond its bearing  
surface with respect to the second lock element, said roller being able to collaborate with a fixed  
guide cam positioned laterally with respect to the rotary carousel.

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12. (Currently Amended) The molding device as claimed in claim 11, ~~characterized in that~~ wherein the actuating means for actuating the second lock element comprise a return spring able to return the moving part to a position for which the second lock element is in the catching position.

13. (Currently Amended) The molding device as claimed in claim 10, this device being of the rotary carousel type, ~~characterized in that~~ wherein the means for controlling the pivoting of the eccentric spindle comprise an idling cam follower roller supported, via a transmission mechanism, by one end of said shaft, said roller being able to collaborate with a fixed guide cam positioned laterally with respect to the rotary carousel.

14. (Currently Amended) The molding device as claimed in claim ~~13~~, ~~characterized~~ 10, this device being of the rotary carousel type, wherein the means for controlling the pivoting of the eccentric spindle comprise an idling cam follower roller supported, via a transmission mechanism, by one end of said shaft, said roller being able to collaborate with a fixed guide cam positioned laterally with respect to the rotary carousel, and in that the means for controlling the pivoting of the eccentric spindle comprise a return spring able to return said spindle to its position of minimum radius.

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15. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 14, characterized in~~ claim 1, wherein that the first hook-shaped lock element is attached and fixed to the first half-mold.

16. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 14, characterized in that~~ claim 1, wherein the first hook-shaped lock element is formed as an integral part of the first half-mold.

17. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 16, characterized in that~~ claim 1, wherein the second hook-shaped lock element is attached and fixed to said moving part.

18. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 16, characterized in that~~ claim 1, wherein the second hook-shaped lock element is formed as an integral part of said moving part.

19. (Currently Amended) The molding device as claimed in ~~any one of claims 1 to 16, characterized in that~~ claim 1, wherein said pivoting surface in the shape of an arc of a circle for the moving part is supported by a mounting plate attached and fixed to the second half-mold.